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Apr 21, 2005

DERWENT-ACC-NO: 2001-611305

DERWENT-WEEK: 200532

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TITLE: Stretchable patches comprise support film and drug-containing tacky layer, for local application of e.g. pain killer and other drugs transdermally to moving and bending sites like wrist and knee

INVENTOR: OHATA, A; HIDAKA, O

PATENT-ASSIGNEE:

ASSIGNEE

TEIJIN LTD

TEYSAN PHARM CO LTD

HIDAKA O

OHATA A

CODE

TEIJ

TEYSN

HIDAI

OHATI

PRIORITY-DATA: 2000JP-0061676 (March 7, 2000)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>AU 780881 B2</u>	April 21, 2005		000	A61K009/70
<input type="checkbox"/> <u>WO 200166095 A1</u>	September 13, 2001	J	024	A61K009/70
<input type="checkbox"/> <u>AU 200136092 A</u>	September 17, 2001		000	A61K009/70
<input type="checkbox"/> <u>EP 1177786 A1</u>	February 6, 2002	E	000	A61K009/70
<input type="checkbox"/> <u>KR 2001111593 A</u>	December 19, 2001		000	A61K009/70
<input type="checkbox"/> <u>US 20020146445 A1</u>	October 10, 2002		000	A61K009/70
<input type="checkbox"/> <u>CN 1364078 A</u>	August 14, 2002		000	A61K009/70
<input type="checkbox"/> <u>JP 2001564748 X</u>	July 2, 2003		000	A61K009/70

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

AU 780881B2	March 5, 2001	2001AU-0036092	
AU 780881B2		AU 200136092	Previous Publ.
AU 780881B2		WO 200166095	Based on
WO 200166095A1	March 5, 2001	2001WO-JP01691	
AU 200136092A	March 5, 2001	2001AU-0036092	
AU 200136092A		WO 200166095	Based on
EP 1177786A1	March 5, 2001	2001EP-0908314	
EP 1177786A1	March 5, 2001	2001WO-JP01691	
EP 1177786A1		WO 200166095	Based on
KR2001111593A	November 6, 2001	2001KR-0714159	
US20020146445A1	March 5, 2001	2001WO-JP01691	
US20020146445A1	October 26, 2001	2001US-0959420	
CN 1364078A	March 5, 2001	2001CN-0800455	
JP2001564748X	March 5, 2001	2001JP-0564748	
JP2001564748X	March 5, 2001	2001WO-JP01691	
JP2001564748X		WO 200166095	Based on

INT-CL (IPC): A61 K 9/70; A61 K 31/015; A61 K 31/07; A61 K 31/137; A61 K 31/138; A61 K 31/192; A61 K 31/196; A61 K 31/21 ; A61 K 31/34; A61 K 31/355; A61 K 31/375; A61 K 31/405; A61 K 31/426; A61 K 31/4439; A61 K 31/4468; A61 K 31/55; A61 K 31/551; A61 K 31/5517; A61 K 31/573; A61 K 31/60; A61 K 45/00; A61 K 47/32

ABSTRACTED-PUB-NO: US20020146445A
BASIC-ABSTRACT:

NOVELTY - A stretchable patch comprises a support film made from copolymers with specific crosslinking degree, self-adhesion and other properties, and drug-containing tacky layer.

DETAILED DESCRIPTION - A stretchable patch comprises a support film having a thickness of 1-50 micro m and a drug-containing tacky layer having a thickness of 3-400 micro m, in which

(i) the support film comprises a copolymer obtained by polymerizing 0-90 wt.% vinyl acetate, 10-97 wt.% 3-14C alkyl (meth)acrylate and 0-15 wt.% (meth)acrylic acid;

(ii) the copolymer has a degree of cross linkage of not less than 20% when crosslinked with a polyvalent metal, and when the copolymer is crosslinked with a polyfunctional compound, the content of units derived from such compound in the copolymer is 1-10%;

(iii) the support film has a strength of self-adhesion of not more than 150 g; and

(iv) the support film has an elastic recovery at 10% elongation of not less than 70%.

ACTIVITY - Antiinflammatory; analgesic; antibacterial; antianginal; hypotensive; antiallergic; antiulcer; tranquilizer; antipsoriatic.

MECHANISM OF ACTION - None given.

USE - The stretchable patches are for local application of e.g. pain killer and other drugs transdermally to moving and bending sites like wrist and knee.

ADVANTAGE - Such patches have superior adhesion but without adverse feel and little irritation.

ABSTRACTED-PUB-NO:

WO 200166095A

EQUIVALENT-ABSTRACTS:

NOVELTY - A stretchable patch comprises a support film made from copolymers with specific crosslinking degree, self-adhesion and other properties, and drug-containing tacky layer.

DETAILED DESCRIPTION - A stretchable patch comprises a support film having a thickness of 1-50 micro m and a drug-containing tacky layer having a thickness of 3-400 micro m, in which

(i) the support film comprises a copolymer obtained by polymerizing 0-90 wt.% vinyl acetate, 10-97 wt.% 3-14C alkyl (meth)acrylate and 0-15 wt.% (meth)acrylic acid;

(ii) the copolymer has a degree of cross linkage of not less than 20% when crosslinked with a polyvalent metal, and when the copolymer is crosslinked with a polyfunctional compound, the content of units derived from such compound in the copolymer is 1-10%;

(iii) the support film has a strength of self-adhesion of not more than 150 g; and

(iv) the support film has an elastic recovery at 10% elongation of not less than 70%.

ACTIVITY - Antiinflammatory; analgesic; antibacterial; antianginal; hypotensive; antiallergic; antiulcer; tranquilizer; antipsoriatic.

MECHANISM OF ACTION - None given.

USE - The stretchable patches are for local application of e.g. pain killer and other drugs transdermally to moving and bending sites like wrist and knee.

ADVANTAGE - Such patches have superior adhesion but without adverse feel and little irritation.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: STRETCH PATCH COMPRISE SUPPORT FILM DRUG CONTAIN TACKIFIER LAYER LOCAL APPLY PAIN KILL DRUG MOVE BEND SITE WRIST KNEE

DERWENT-CLASS: A96 B07 D22

CPI-CODES: A04-F06E5; A12-V01; A12-V03A; B01-A02; B01-B02; B01-B03; B03-A; B03-H; B04-C03; B05-A01B; B06-D01; B06-H; B07-A01; B10-A05; B10-B01A; B10-B03B; B10-C04B; B10-C04C; B12-M02D; B12-M10; B14-A01; B14-C01; B14-C03; B14-E08; B14-F01D; B14-F02; B14-F02B; B14-G02A; B14-J01A1; B14-J01B2; B14-J01B4; B14-K01B; B14-K01D; B14-K01E; B14-N17; B14-N17C; D09-C04B;

CHEMICAL-CODES:

Chemical Indexing M6 *01*

Fragmentation Code

M905 P220 P411 P420 P431 P447 P448 P520 P523 P526

P738 P821 P822 P823 P943 Q261 R041 R043 R045 R051

R052 R303 R420

Chemical Indexing M2 *02*

Fragmentation Code

D014 D022 D601 G013 G100 H2 H211 H5 H541 H6
H602 H641 H8 J0 J012 J1 J171 J3 J331 M210
M211 M240 M272 M281 M311 M321 M342 M372 M391 M412
M431 M511 M520 M531 M540 M740 M782 M904 M905 M910
N103 Q261 R041 R043 R045 R051 R052

Specific Compounds

00076K 00076M 04596K 04596M

Registry Numbers

0076U

Chemical Indexing M2 *03*

Fragmentation Code

G010 G013 G100 J0 J011 J1 J171 J4 J431 M1
M121 M131 M280 M312 M321 M331 M340 M342 M372 M391
M414 M431 M510 M520 M532 M540 M740 M782 M904 M905
N103 Q261 R041 R043 R045 R051 R052

Specific Compounds

03908K 03908M 07101K 07101M

Chemical Indexing M2 *04*

Fragmentation Code

F012 F013 F014 F015 F113 H4 H403 H421 H482 H8
J5 J522 K0 L8 L818 L821 L832 L9 L942 L960
M280 M312 M321 M332 M343 M373 M391 M413 M431 M510
M521 M530 M540 M740 M782 M904 M905 M910 N103 Q261
R041 R043 R045 R051 R052

Specific Compounds

00035K 00035M 04454K 04454M

Registry Numbers

0035U

Chemical Indexing M2 *05*

Fragmentation Code

G036 G038 G562 H4 H401 H481 H7 H725 H8 M210
M211 M240 M283 M316 M321 M333 M342 M373 M391 M415
M431 M510 M520 M530 M541 M740 M782 M904 M905 M910
N103 Q261 R041 R043 R045 R051 R052

Specific Compounds

00282K 00282M

Registry Numbers

0282U

Chemical Indexing M2 *06*

Fragmentation Code

D012 D016 D025 D120 H4 H401 H441 H8 M210 M211
M225 M232 M240 M283 M320 M412 M431 M511 M520 M530
M540 M740 M782 M904 M905 M910 N103 Q261 R041 R043
R045 R051 R052

Specific Compounds

00179K 00179M 14756K 14756M

Registry Numbers

0179U

Chemical Indexing M2 *07*

Fragmentation Code

K0 K7 K710 K799 M280 M313 M321 M332 M343 M383

M391 M416 M431 M620 M740 M782 M904 M905 M910 N103
Q261 R041 R043 R045 R051 R052
Specific Compounds
00096K 00096M
Registry Numbers
0096U

Chemical Indexing M2 *08*

Fragmentation Code
D011 D019 D160 H4 H401 H421 H8 K0 K7 K710
L8 L814 L821 L833 M280 M320 M412 M431 M511 M520
M530 M540 M740 M782 M904 M905 N103 Q261 R041 R043
R045 R051 R052
Ring Index
00996
Specific Compounds
03026K 03026M

Chemical Indexing M2 *09*

Fragmentation Code
D011 D019 D022 E280 G011 G100 H6 H602 H608 H642
M1 M113 M210 M211 M240 M281 M320 M412 M431 M511
M520 M531 M540 M740 M782 M904 M905 N103 Q261 R041
R043 R045 R051 R052
Ring Index
01829
Specific Compounds
04615K 04615M

Chemical Indexing M2 *10*

Fragmentation Code
C017 C100 C720 G020 G221 H1 H102 H181 H4 H401
H481 H5 H541 H8 M210 M213 M232 M273 M281 M313
M321 M332 M343 M383 M391 M411 M431 M510 M520 M531
M540 M640 M740 M782 M904 M905 N103 Q261 R041 R043
R045 R051 R052
Specific Compounds
04602K 04602M 10665K 10665M

Chemical Indexing M2 *11*

Fragmentation Code
C017 C100 C800 C801 C803 C804 C805 C806 C807 G011
G100 H1 H102 H181 H4 H401 H481 H6 H602 H641
H8 M210 M214 M233 M273 M281 M312 M321 M332 M343
M373 M391 M411 M431 M510 M520 M531 M540 M640 M740
M782 M904 M905 N103 Q261 R041 R043 R045 R051 R052
Specific Compounds
A4GEXK A4GEXM

Chemical Indexing M2 *12*

Fragmentation Code
G011 G015 G100 H5 H542 H7 H721 H8 J0 J012
J1 J131 J3 J341 M210 M211 M272 M282 M312 M321
M332 M342 M372 M391 M414 M431 M510 M520 M532 M540
M740 M782 M904 M905 N103 Q261 R041 R043 R045 R051
R052
Specific Compounds
06133K 06133M

Chemical Indexing M2 *13*

Fragmentation Code

C017 C100 C720 G017 G100 H1 H100 H102 H141 H181
H4 H401 H481 H6 H602 H608 H642 H8 M210 M214
M233 M273 M281 M312 M321 M332 M343 M373 M391 M411
M431 M510 M520 M531 M540 M640 M740 M782 M904 M905
N103 Q261 R041 R043 R045 R051 R052

Specific Compounds

17483K 17483M

Chemical Indexing M2 *14*

Fragmentation Code

A313 C810 M411 M424 M431 M740 M782 M904 M905 N103
Q132 Q261 R041 R043 R045 R051 R052

Specific Compounds

03167K 03167M

Chemical Indexing M1 *15*

Fragmentation Code

H7 H713 H721 J0 J011 J2 J271 M210 M211 M212
M262 M272 M281 M320 M416 M423 M424 M431 M740 M782
M904 M905 M910 N103 Q130 Q261 R041 R043 R045 R051
R052

Specific Compounds

00835K 00835Q 00835M

Registry Numbers

0835S 0835U

Chemical Indexing M1 *16*

Fragmentation Code

H7 H714 H721 J0 J011 J1 J171 M210 M212 M262
M281 M320 M416 M423 M424 M431 M740 M782 M904 M905
M910 N103 Q130 Q261 R041 R043 R045 R051 R052

Specific Compounds

00446K 00446Q 00446M 04893K 04893Q 04893M

Registry Numbers

0446S 0446U

Chemical Indexing M1 *17*

Fragmentation Code

H7 H721 J0 J011 J1 J171 M210 M213 M232 M262
M281 M320 M416 M423 M424 M431 M740 M782 M904 M905
M910 N103 Q130 Q261 R041 R043 R045 R051 R052

Specific Compounds

00460K 00460Q 00460M

Registry Numbers

0460S 0460U

Chemical Indexing M5 *18*

Fragmentation Code

M424 M431 M740 M782 M904 M905 N103 Q261 R041 R043
R045 R051 R052

Specific Compounds

04714K 04714M

Chemical Indexing M5 *19*

Fragmentation Code

M424 M431 M740 M782 M904 M905 M910 N103 Q261 R041
R043 R045 R051 R052

Specific Compounds

00002K 00002M 14648K 14648M

Registry Numbers
0002U

Chemical Indexing M5 *20*

Fragmentation Code
M424 M431 M740 M782 M904 M905 M910 N103 Q261 R041
R043 R045 R051 R052
Specific Compounds
00014K 00014M
Registry Numbers
0014U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0002U; 0014U ; 0035U ; 0076U ; 0096U ; 0179U ;
0282U ; 0446S ; 0446U ; 0460S ; 0460U ; 0835S ; 0835U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; G0340*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63
F41 F89 D11 D86 D87 D88 D89 D90 D91 D92 D93 ; G0384*R G0339 G0260 G0022 D01 D12 D10
D26 D51 D53 D58 D63 F41 F89 D11 D87 D88 D89 D90 D91 D92 D93 ; S9999 S1285*R ; M9999
M2073 ; L9999 L2391 ; L9999 L2073 ; H0000 ; P0088 Polymer Index [1.2] 018 ; R00835
G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84 F41 F89 ; G0340*R G0339 G0260 G0022
D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D86 D87 D88 D89 D90 D91 D92 D93 ;
G0384*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 D87 D88 D89
D90 D91 D92 D93 ; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60
D83 F36 F35 ; R00460 G0306 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60 D84
F36 F35 ; S9999 S1285*R ; M9999 M2073 ; L9999 L2391 ; L9999 L2073 ; H0022 H0011 ;
H0033 H0011 ; P0088 Polymer Index [1.3] 018 ; P0884 P1978 P0839 H0293 F41 D01 D11
D10 D19 D18 D31 D50 D63 D90 E21 E00 ; S9999 S1285*R Polymer Index [1.4] 018 ;
ND01 ; Q9999 Q8015 Q7987 ; Q9999 Q8037 Q7987 ; B9999 B3883 B3838 B3747 ; Q9999
Q7818*R ; K9483*R ; K9676*R ; K9574 K9483 Polymer Index [1.5] 018 ; B9999 B5016*R
B4977 B4740 ; B9999 B5243*R B4740 ; B9999 B4091*R B3838 B3747 ; B9999 B5301 B5298
B5276 ; B9999 B3907 B3838 B3747 ; B9999 B3872 B3838 B3747 ; N9999 N7090 N7034
N7023 ; B9999 B5447 B5414 B5403 B5276 Polymer Index [1.6] 018 ; D00 D01 Gm A1 3A ;
A999 A157*R ; A999 A771 Polymer Index [2.1] 018 ; R00835 G0566 G0022 D01 D11 D10
D12 D51 D53 D58 D63 D84 F41 F89 ; M9999 M2073 ; L9999 L2391 ; L9999 L2073 ; H0000
Polymer Index [2.2] 018 ; ND01 ; Q9999 Q8015 Q7987 ; Q9999 Q8037 Q7987 ; B9999
B3883 B3838 B3747 ; Q9999 Q7818*R ; K9483*R ; K9676*R ; K9574 K9483 Polymer Index
[2.3] 018 ; Q9999 Q6644*R Polymer Index [2.4] 018 ; R01135 D01 D11 D10 D50 D63 D84
F41 F89 ; R01047 D01 D11 D10 D50 D85 F23 ; A999 A475 ; A999 A771 Polymer Index
[2.5] 018 ; D01 D11 D10 D50 D61*R D93 F23 A1 3A ; A999 A157*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-182592

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